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AMENDMENT TO THE CLAIMS:

1. (Currently Amended) An arrangement for transporting metallic work pieces, especially during a heat treatment process, comprising:

a heat-insulated transport chamber to hold the work pieces; means for loading and unloading the work pieces; and a transporting gear for moving the transport chamber,

wherein the transport chamber can be moved horizontally, is designed to be vacuum-tight, and can be evacuated of air to create a vacuum to protect the work pieces from environmental influences; and

wherein the transport chamber contains a horizontal batch loading and unloading device, and

wherein the transport chamber is provided with a heating element for heating the treatment chamber.

- 2. (Previously Amended) The arrangement in accordance with claim 1, further comprising a vacuum pump for evacuating the air from the transport chamber.
 - 3. (Canceled)
- 4. (Previously Amended) The arrangement in accordance with claim 1, wherein the transport chamber is equipped with a removable thermal insulation made of steel.
- 5. (Previously Amended) The arrangement in accordance with claim 1, wherein the transport chamber is equipped with a hermetically scalable loading door, which may be actuated via a drive mechanism.
- 6. (Previously Amended) The arrangement in accordance with claim 5, wherein the transport chamber is equipped with a hermetically sealable connecting door.
- 7. (Previously Amended) The arrangement in accordance with claim 1, wherein the transport chamber and the transporting gear can be moved relative to one another.
- 8. (Previously Amended) The arrangement in accordance with claim 7, wherein the transport chamber is positioned on the transporting gear such that it can pivot horizontally or can move in a straight line in a horizontal and/or vertical direction.
- 9. (Previously Amended) The arrangement in accordance with claim 1, wherein the transporting gear can rotate in place.
- 10. (Previously Amended) The arrangement in accordance with claim 1, wherein the transporting gear is rail-mounted, or can be controlled freely via induction loops embedded in the base.

11. (Currently Amended) A system for heat treating metallic work pieces comprising:

at least two treatment chambers for the horizontal acceptance of batches, in which the work pieces can be heat treated; and

an arrangement for transporting metallic work pieces can be coupled to the treatment chamber via a transfer canal that can be evacuated of air, the arrangement includes:

a heat-insulated transport chamber to hold the work pieces; means for loading and unloading the work pieces; and a transporting gear for moving the transport chamber,

wherein the transport chamber can be moved horizontally, is designed to be vacuum-tight, and can be evacuated of air to create a vacuum to protect the work pieces from environmental influences;

wherein the transport chamber contains a horizontal batch loading and unloading device, and

wherein the transport chamber is provided with a heating element for heating the treatment chamber.

- 12. (Previously Amended) The system in accordance with claim 11, wherein the transfer canal is connected to the treatment chamber in a stationary position.
- 13. (Previously Amended) The system in accordance with claim 11, wherein the transfer canal can be evacuated separately.
- 14. (Previously Amended) The system in accordance with claim 11, wherein the transfer canal is equipped with a drive mechanism, via which a loading door of the transport chamber may be actuated.
- 15. (Previously Amended) The system in accordance with claim 11, wherein the treatment chamber is a vacuum furnace, an atmospheric furnace, or a cooling chamber.
- 16. (Currently Amended) A method of transporting metallic work pieces during a heat treatment process, in which the work pieces are transported within a heat-insulated, horizontally movable transport chamber, between at least two horizontally loaded treatment chambers, in which the work pieces may be heat treated, the method comprising:

evacuating the transport chamber, which is designed to be vacuum-tight, of air, wherein the transport chamber is provided with a heating element for heating the treatment chamber;

creating a vacuum that will protect the work pieces from environmental influences;



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transporting the work pieces within the vacuum from one treatment chamber to the next; and

holding the work pieces at the treatment temperature, without any significant drop in temperature.

- 17. (Previously Amended) The method in accordance with claim 16, further comprising coupling the transport chamber via a transfer canal to the appropriate treatment chamber.
- 18. (Previously Amended) The method in accordance with claim 17, further comprising evacuating the transfer canal separately.
- 19. (New) The arrangement in accordance with claim 1, wherein the heating element is connected to an electrical power supply.
- 20. (New) The arrangement in accordance with claim 1, wherein the treatment chamber is heated up to a temperature of approximately 1,000° C.

